

# **Water Pollution Control Plant Monthly Report**



## **MARCH 2012**

### **OVERVIEW AND HIGHLIGHTS**

During the month of March, WPCP personnel were offered an excellent opportunity to attend a month long safety training event (each Tuesday) at the Electric Plant. The safety focus was on Electrical safety and Slips, Trips and Falls Safety Training. The training was excellent and attended by the entire WPCP staff.

Plant staff spent an extra amount of time and effort during the month on pressing additional amount of water plant sludge. The Water Plant cleaned tanks at their facility during the month and the extra sludge produced during the cleaning was pressed and land filled by WPCP personnel. To accommodate the extra pressing, we moved James Boykin to our afternoon shift; this provided three shifts of pressing sludge.

Maintenance staff concentrated their efforts on numerous projects:

1. New electrical conduit to the lower control chamber in the digesters.
2. New electrical conduit to the sump pumps, in the scum well.
3. Removal of the lower bearing and housing on the No. 2 tertiary screw pump.
4. Electric conduit to the flush valve on the No. 2 grit pump.

Kevin Aiken, Safety Coordinator attended the annual Ohio Safety Congress conference in Columbus, OH for three days. The event provides excellent educational sessions on safety training opportunities and equipment. The annual event brings together safety industry professionals and experts who demonstrate safety procedures that reduce and eliminate safety accidents and hazards.

### **WPCP MONTHLY STAFF MEETING AND DISCUSSION**

Water Superintendent, George Ginnis attended the meeting and gave an overview of the Water Department. George discussed the construction that is taking place with new water lines and future plans on the water intake.

#### ● Operations

1. Operations
  - Completed all radio communications to pump stations. Will be working on communications to Valleyview pump station in 2012
  - Mower Demonstration
  - Polymer Testing – Today and in the first week of April to determine polymer effectiveness and cost per dry ton.
  - No. 2 Anaerobic Digester Mixer Repair
2. Safety Training – Began on March 6<sup>th</sup> and running for the next two weeks, there will be a safety training event on Electrical Safety and Slips and Trips hosted by the electric department. The training times will be 10 am till 2 pm on each Tuesday. The schedule will be posted soon for all are participants.
3. NESOWEA Geneva Meeting – On March 29, 2012.
4. Safety meeting minute's review.
5. CPR training in May.

## **MARCH EVENTS AND MEETINGS**

1. On March 6, 2012 WPCP personnel attended a safety training event, "Electric Safety and Slips, Trips and Falls" at the Electric Plant conference room.
2. Ventrac mower sales representatives were at the WPCP on March 6, 2012 to demonstrate the mowers capabilities. The mower was able to safely mow slopes at the WPCP.
3. A representative from Sam's Club was at the WPCP on March 7, 2012 to renew club memberships for plant personnel.
4. Students from Heritage Middle School were at the WPCP on March 9, 2012 to tour the facility. Joe Elliott, Operations Supervisor conducted the tour for the students.
5. On March 13, 2012 WPCP personnel attended a safety training event, "Electric Safety and Slips, Trips and Falls" at the Electric Plant conference room.
6. David Sudbrook and Randy Bruback prepared and cooked at the Painesville Senior Center luncheon on March 14, 2012. The luncheon also included a presentation by City personnel on community services for Painesville residents.
7. A sales representative from DawnChem gave an equipment demonstration on a floor burnisher at the WPCP for plant personnel on March 15, 2012.
8. On March 20, 2012 WPCP personnel attended a safety training event, "Electric Safety and Slips, Trips and Falls" at the Electric Plant conference room.
9. Corey Banks, Damman Superior Pump, met with Joe Jackson and Randy Bruback on March 20, 2012 to discuss the company's line of products.
10. Randy Bruback met with the Downtown Painesville Organization on March 20, 2012 to discuss a new steelhead fishing tournament.
11. Ohio Deferred Compensation representative met with WPCP personnel on March 22, 2012 at the WPCP.
12. Kevin Aiken, WPCP Safety Coordinator attended the Ohio Safety Congress Annual Conference in Columbus, OH on March 27, 28 and 29, 2012.
13. WPCP personnel, Joe Jackson, Joe Elliott, James Boykin, Leslie Balata, Jim Davidson and Randy Bruback attended the Northeast Ohio Section Water Environment Association seminar and tour in Geneva, Ohio on March 29, 2012. The event was the spring section meeting and included tours of the Geneva WWTP and Spire Institute.

## **GOALS AND ACCOMPLISHMENTS**

1. The Community Engagement Committee volunteered to assist in the luncheon preparation and serving for the Painesville Senior Center on March 14, 2012. This luncheon provided an opportunity to meet with Senior Citizens in Painesville and offer services from the City.
2. Parks and Recreation maintenance personnel provided service to our Kubota Lawn Mower in preparation of the upcoming mowing season.
3. Electric Distribution personnel placed a new service pole at the septage gate entrance for future power to an electric gate operator.

## **SAFETY MEETING MINUTES**

### **WPCP Safety Committee Notes March 14, 2012 @ 10:30am**

1. Kevin reviewed the topics that were discussed at city safety meeting he attended on March 14 at 9:00am.
  - a. The safety support for the bed on truck #75 is bent. Kevin and Joe had discussed a possible change to the design to try and eliminate the problem from happening again.
2. Randy asked Kevin to schedule fire extinguisher training for a Thursday in the beginning of April. He reminded the committee that this training must be completed annually by each employee.
3. Kevin asked if there was anything specific we need, or want when ordering new hard hats. He said the pricing for a basic hard hat ranges from \$10 to \$15 each. Randy said that was ok but we need to make sure when ordering that we get this year's model not something with last year's date stamped on them.

4. In a previous meeting Ed informed the committee that the lock out/ tag out cabinet was broken. Kevin found a replacement from Grainger for \$70 but was trying to find better pricing.
5. Ed reminded the committee that the plants fire extinguishers need serviced next month.
6. There was discussion about the gloves that the electricians wear and how often they need to be inspected and certified. Kevin was going to the safety meeting at the electric plant the following Tuesday and said he would ask the instructor.
7. Tim reported that while he was working the weekend he opened the door to the flow control building and said the opening where the door handle was is sharp and could possibly cut someone. Kevin said he would talk to Joe and see if we could possibly install a new handle or at least cover the hole.

#### Old Business

1. Kevin is checking on having all of the fall restraint equipment inspected and recertified.

### **Mission Statement**

***The mission of the Water Pollution Control Plant is to provide the most effective customer oriented wastewater collection and treatment to the citizens of Painesville.***



***Grand River  
Painesville, OH***

### **Results**

	<b><u>This Month</u></b>	<b><u>Last Month</u></b>
Avg. Daily Flow	3.9 MGD	3.6 MGD
Flow Treated	121.05 Mill. Gal.	104.44 Mill. Gal.
Raw PO	5.05 Mg/L	4.09 Mg/L
Final PO	0.26 Mg/L	0.25 Mg/L
% Removed	94.9 %	93.9 %
PO to River	0.131 Tons	0.109 Tons
Raw C-BOD	151 Mg/L	187 Mg/L
Final C-BOD	2 Mg/L	1 Mg/L
% Removed	98.7 %	99.5 %
C-BOD to River	1.01 Tons	0.44 Tons
Raw Suspended Solids	320 Mg/L	432 Mg/L
Final Suspended Solids	1 Mg/L	1 Mg/L
% Removed	99.7 %	99.8 %
Suspended Solids to River	0.50 Tons	0.44 Tons

### **Meters**

The Total Plant Flow meter was calibrated weekly, and found to be correct. The Lubrizol meter is checked weekly. The Total Plant Flow meter recorded 121.05 million gallons flow. The Lubrizol meter recorded 5,349,400 gallons flow.

### **Detritors**

1.23 tons of grit was removed during the month.

### **Comminutors**

1.03 tons of screenings was removed during the month.

### **Chemical Treatment**

14,700 pounds of alum was required at a cost of \$1,665.51 for the removal of 4835.8 pounds of phosphorus. Cost of phosphorus removal for the month was \$0.34/pound.

### **Primary Clarifiers**

The primary clarifiers operated satisfactorily during the month, removing 707,175 gallons of raw sludge containing 4.0% solids.

### **Anaerobic Digesters**

The primary digesters operated satisfactorily during the month, transferring 730,638 gallons of raw sludge for pressing containing 3.3 % solids.

### **Secondary Treatment**

The secondary clarifiers operated satisfactorily during the month.

### **Tertiary Treatment**

The tertiary filters operated satisfactorily during the month.

### **Liquid Sludge**

The filter press processed 821,138 gallons of liquid sludge producing 448.6 tons of wet cake including 90,500 gallons of water plant sludge containing 22.3% solids or 99.44 tons of dry solids. 1,863 pounds of polymer were used at a cost of \$2,161.08. Cost of disposal at the Lake County Landfill was \$13,525.80.

### **Digester and Greenhouse Heating**

The anaerobic digesters consumed 28,888 cubic ft. of generated methane and 109,037 cubic ft. of purchased gas. The greenhouse used 312 cubic ft. of purchased gas.

### **Pump Stations**

Erie Street pumps recorded 148.90 hours and pumped 893,400 gallons of wastewater.

Fern Drive pumps recorded 39.70 hours and pumped 524,040 gallons of wastewater.

Poplar Lane pump recorded 88.50 hours and pumped 2,920,500 gallons of wastewater.

Jackson Street pump recorded 47.20 hours and pumped 863,760 gallons of wastewater.

Recreation Park pump recorded 126.70 hours and pumped 2,280,600 gallons of wastewater.

Sanford Street pump recorded 107.40 hours and pumped 1,611,000 gallons of wastewater.

Valley View pumps recorded 26.28 hours and pumped 283,824 gallons of wastewater.

Brookstone flow meter recorded 1,096,693 gallons of sewer flow.

The Seven (7) pump stations pumped 9,377,124 gallons of wastewater and 36 man-hours were required in maintenance.

Respectfully Submitted,



Randy Bruback  
Superintendent  
Water Pollution Control Plant